

PATENT ATTORNEY DOCKET: SP01-290

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:

Fang Lai et al.

Serial No:

09/972,469

Filing Date:

October 5, 2001

Title:

Amplifying Expressed Sequences

From Genomic DNA of High-Order Eukaryotic Organisms for DNA

Arrays

Group Art Unit: 1631

Examiner: Ms. Carolyn Smith

**RESPONSE** 

Assistant Commissioner for Patents Washington, DC 20231

## RESPONSE TO THE EXAMINER'S OFFICE ACTION

In reply to the Office Action dated September 22, 2003, in the above-captioned application, please enter the following amendments and Remarks as follows:

## In the Claims

Please rewrite claims 1, as follows:

1. A method for amplifying expressed genetic sequences from gDNA selected from a mammalian or higher higher order plant eukaryotic species, for printing on DNA microarrays, the method comprises:

identifying either 1) a 3'UTR of a gDNA sequence based on the presence of a stop codon and a polyadenylation signal in the gDNA sequence corresponding to an expressed mRNA sequence, or 2) an exon of a gene defined by computer software;

selecting a predetermined gDNA sequence within the 3'UTR or exon;

designing a probe for said predetermined gDNA sequence;

performing a first polymerase chain reaction (PCR) for the 3'UTR or exon on gDNA to generate PCR-product;

separating the resultant PCR-product by a size-differentiation process selected from the group consisting of electrophoresis and chromatography;

selecting a predetermined band from the size-differentiated samples; and performing a second polymerase chain reaction to amplify predetermined sequence.